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P O Box 1450 Alexandria, Virgima 22313-1450

# NOTICE OF ALLOWANCE AND FEE(S) DUE

74321 7590 04/09/2008

LAHIVE & COCKFIELD, LLP/THE MATHWORKS
One Post Office Square

Boston, MA 02109-2127

EXAMINER

JACOB, MARY C

ART UNIT PAPER NUMBER

DATE MAILED: 04/09/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/622,211	07/18/2003	Matthew Englehart	MWS-055RCE	4008

TITLE OF INVENTION: RATE GROUPING DURING CODE GENERATION FOR MULTI-RATE MODELS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$0	\$0	\$1440	07/09/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used to correspondence including d below or directed off ions.	or tran	smitting the ISSU Patent, advance or in Block 1, by (a							
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74321 7590 04499/2008  LAHIVE & COCKFIELD, LLP/THE MATHWORKS One Post Office Square Boston, MA (02109-2127				KS	Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmital is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE; address above, or being facstimile transmitted to the USPIO (261) 273-2885, on the date indicated better					
										(Depositor's name)
										(Signature)
										(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR			ATTO	RNEY DOCKET NO.	CONFIR	RMATION NO.
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



# UNITED STATES PATENT AND TRADEMARK OFFICE

#### UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

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LAHIVE & CO	CKFIELD, LLP/THE	JACOB, MARY C			
One Post Office S		ART UNIT PAPER NUMBER			
Boston, MA 02109-2127		2123			

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 626 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 626 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Notice of Allowability

Application No.	Applicant(s)
10/622,211	ENGLEHART ET AL.
Examiner	Art Unit
MARY C. JACOB	2123

- The MAILING DATE of this communication appears on to All claims being allowable, PROSECUTION ON THE MERITS IS (OR REherewith (or previously mailed), a Notice of Allowance (PTOL-85) or other NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. of the Office or upon petition by the applicant. See 37 CFR 1.313 and MP.	MAINS) CLOSED in this application. If not included appropriate communication will be mailed in due course. THIS This application is subject to withdrawal from issue at the initia
1. This communication is responsive to Amendments filed 1/17/08.	
2. ☑ The allowed claim(s) is/are <u>4-18 and 22-32</u> .	
3.	ceived.  ceived in Application No  have been received in this national stage application from the  simmunication to file a reply complying with the requirements his application.  te the attached EXAMINER'S AMENDMENT or NOTICE OF
CORRECTED DRAWINGS (as "replacement sheets") must be sub-     (a)   including changes required by the Notice of Draftsperson's Patr     1)   hereto or 2)   to Paper No./Mail Date	mitted. ent Drawing Review ( PTO-948) attached
(b) including changes required by the attached Examiner's Amendi Paper No./Mail Date  Identifying indicla such as the application number (see 37 CFR 1.84(c)) sh each sheet. Replacement sheet(s) should be labeled as such in the header	ould be written on the drawings in the front (not the back) of
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit of BIG attached Examiner's comment regarding REQUIREMENT FOR THE</li> </ol>	
Attachment(s) 1.	5. Notice of Informal Patent Application 6. Interview Summary (PTO-413), Paper No./Mail Date
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. Examiner's Amendment/Comment
<ol> <li>Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ol>	8. Examiner's Statement of Reasons for Allowance
	9. Other

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#### DETAILED ACTION

The response filed on 1/17/08 has been received and considered. Claims 4-18,
 22-32 are presented for examination.

#### EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Neslihan Doran, Reg. No. L0389, on 3/27/08.

The application has been amended as follows:

Claim 17, line 2, the phrase "instructions for generating code" has been replaced with –instructions, that when executed by a processor, generates code—

Claim 22, line 2, after the word "instructions," the phrase --that when executed by a processor, generate functions associated with a multi-rate dynamic system,-- has been inserted

Claim 25, line 2, after the word "instructions," the phrase --that when executed by a processor, generate instructions for a multi-rate dynamic system,-- has been inserted

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Claim 30, line 2, after the word "instructions," the phrase –that when executed by a processor, generate instructions associated with a multi-rate dynamic system,-- has been inserted

## Claim Objections

 The objections to claims 22-32 recited the Office Action, dated 10/18/07, are withdrawn in view of the amendments to the claims, filed 1/17/08.

# Claim Rejections - 35 USC § 112

4. The rejection of Claim 24 under 35 U.S.C. 112, second paragraph, recited the Office Action dated 10/18/07 is withdrawn in view of the amendments to the claims, filed 1/17/08.

# Claim Rejections - 35 USC § 101

 The rejection of Claims 4-18, 22-32 under 35 U.S.C. 101 recited the Office Action dated 10/18/07 are withdrawn in view of the amendments to the claims, filed 1/17/08.

### Allowable Subject Matter

Claims 4-18, 22-32 are allowed.

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#### Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mary C. Jacob whose telephone number is 571-272-6249. The examiner

can normally be reached on Tuesday-Thursday, 7AM-4PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Rodriguez can be reached on 571-272-3753. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Mary C Jacob/

Examiner, Art Unit 2123

/M. C. J./

3/28/08

/Paul L Rodriguez/ Supervisory Patent Examiner, Art Unit 2123